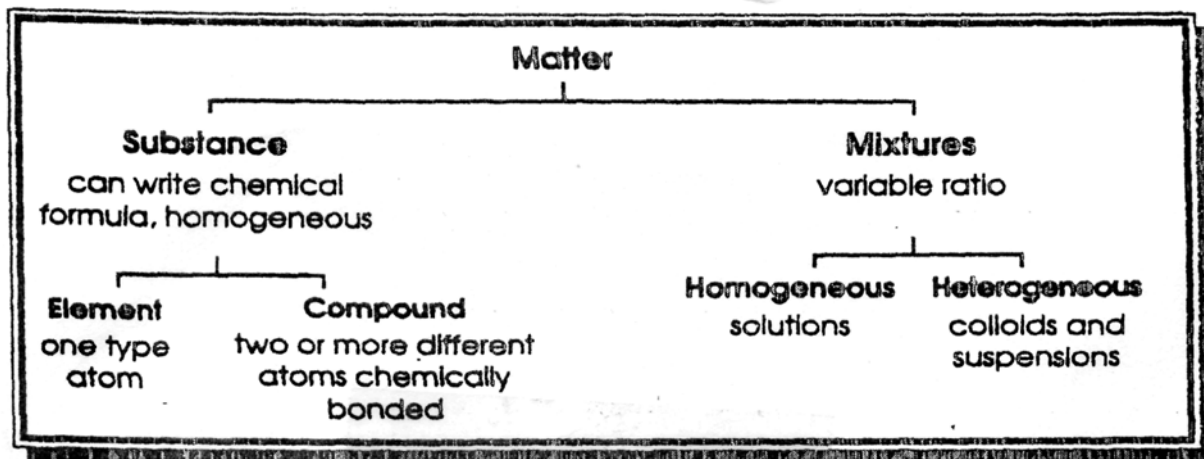


MATTER – SUBSTANCES VS. MIXTURES

Name _____

Date _____ Per. _____

Matter can be classified as either a **substance** (element or compound) with definite composition; written with a formula [homogeneous] or a **mixture** (heterogeneous or homogeneous) [blended without combining chemically; can be separated by physical means.]



Classify each of the following as to whether it is a **substance** or a **mixture**. If it is a **substance**, write **Element** or **Compound** in the substance column. If it is a **mixture**, write **heterogeneous** or **homogeneous** in mixture column.

Type of matter	Substance	Mixture
1. chlorine		
2. Water		
3. Soil		
4. Sugar water		
5. Oxygen		
6. Carbon dioxide		
7. Rocky road ice cream		
8. Alcohol		
9. Pure air		
10. Iron		

Homogeneous vs. Heterogeneous Matter

Name_____

Date_____ Per.____

Mixtures are the physical combination of two or more substances. If a mixture is consistent throughout, or it contains only one phase, the mixture is said to be **Homogenous**. Another name for a **homogenous mixture** is a **solution**.

If a mixture is not consistent throughout, or it contains more than one phase, the mixture is said to be **Heterogeneous (colloids & suspensions)**. Remember that mixtures can be separated by physical means.

Classify the following substances and mixtures as either homogeneous or heterogeneous. Place a check in the correct column.

	Homogeneous	Heterogeneous
1. Flat Soda Pop		
2. Cherry Vanilla Ice Cream		
3. Italian Salad Dressing		
4. Sugar		
5. Soil		
6. Aluminum Foil		
7. Black Coffee		
8. Stirred Sugar Water		
9. City Air		
10. Paint		
11. Ethyl Alcohol (C ₂ H ₅ OH)		
12. Iron		
13. Beach Sand		
14. Purified Air		
15. Spaghetti Sauce		

